



Entergy

May 22, 2003

Ms. Sara Kyle, Chairman
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, TN 37243-0505

PAID T.R.A.	
Chk #	1223
Amount	\$25.00
Rcvd By	RA
Date	5/27/03

Entergy Arkansas
425 West Capitol Avenue
P.O. Box 551
Little Rock, AR 72203
Tel 501 377 4000

2003 MAY 27 PM 1:07

T.R.A. DOCKET ROOM

Re: Tennessee Regulatory Authority (TRA) Docket No. 03-00362
Entergy Arkansas, Inc. (EAI) Proposed Net Metering Tariff and
Standard Interconnection Agreement

Dear Ms. Kyle:

The purpose of this letter is to file with the Tennessee Regulatory Authority for its acknowledgement and approval the following rate schedule, policy schedules, and revised Table of Content sheets recently filed with and approved by the Arkansas Public Service Commission (APSC). We request that the tariff and policy schedules for Tennessee customers served by EAI be effective on or about July 1, 2003. The tariff and policy schedules are currently effective for EAI customers in Arkansas per approving orders issued by the Arkansas Public Service Commission (APSC):

- Rate Schedule No. 3, Optional Residential/Commercial Net Metering Service (NM) tariff
- Standard Interconnection Agreement for Net Metering Facilities in Policy Schedule No. 13, Section 13.16.
- Policy Schedule No. 13, Sheet P13.2.2
- Net Metering Safety and Performance Standards in Policy Schedule No. 14
- Revised Table of Content Sheet Nos. TC-3 and TC-6

Attached are the original and 13 copies of EAI's August 22, 2002 filing with the APSC in Docket No. 02-149-TF of its proposed NM tariff along with Policy Schedule No. 13, Section 13.16. Copies of changes to the Table of Content in Part III Rate Schedules, Sheet No. TC-3 and to Policy Schedule No. 13, Sheet P13.2.2. were included in the filing. EAI made an errata filing on September 19, 2002 to make minor corrections to the proposed Policy Schedule.

On September 19, 2002, APSC General Staff witness Harold Keys, Jr. filed testimony recommending approval of EAI's proposed NM tariff and interconnection agreement (Policy Schedule No. 13) as filed on August 22 and as revised on September 19. The APSC issued Order No. 1 on September 20, 2002, approving EAI's NM tariff and Policy Schedule No. 13 along with revised

Table of Contents Sheet No. TC-3 and Policy Schedule No. 13 – Sheet No. P13.2.2.

The APSC also required utilities to inform customers about net metering service by means of a bill insert. A copy of the bill insert provided to EAI's Arkansas and Tennessee retail customers is provided with this letter for informational purposes only.

On October 4, 2002, EAI filed its Net Metering Safety and Performance Standards as proposed Policy Schedule No. 14 with the APSC in APSC Docket No. 02-202-TF. The APSC issued Order No. 1 in this Docket on November 1, 2002, suspending the proceeding to allow more time to review the standards.

On April 24, 2003, EAI filed its revised Policy Schedule No. 14 as a result of conversations with the APSC Staff. Included with the filing was the changes to the Table of Contents in Part IV Policy Schedules, Sheet No. TC-6.

On April 29, 2003, EAI made an errata filing for corrections to revised Policy Schedule No. 14 and Sheet No. TC-6.

On May 9, 2003, APSC Staff witness Clark D. Cotten filed Supplemental Testimony recommending approval of EAI's April 29 filing of Policy Schedule No. 14 and Sheet No. TC-6.

On May 13, 2003, the APSC issued Order No. 2 approving Policy Schedule No. 14 and Sheet No. TC-6 as filed on April 29, 2003.

Copies of each of these filings are attached. A copy of the tariff, policy schedules and revised TOC sheets reflecting the APSC docket number, approving order number, and effective date follow this letter. Also attached is the required \$25.00 filing fee.

Should you have any questions concerning this filing, please call me at 501-377-5489.

Sincerely,



Will Morgan
Manager, Arkansas Regulatory Affairs

WM/tj
Attachments

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No.: 3.1

Replacing:

Sheet No.:

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

APSC Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

Part III. Rate Schedule No.: 3

Title: Optional Residential/Commercial Net Metering Service (NM)

TRA File Mark Only

3.0. NET METERING

3.1. APPLICABLE SERVICE AREA

In the Distribution Service area allocated by the Arkansas Public Service Commission ("APSC" or the "Commission") to Entergy Arkansas, Inc. ("EAI" or the "Company"), at any point on Company's existing facilities having adequate capacity and suitable voltage for delivery of service. This schedule may also apply outside the Company's allocated Distribution Service area to customers who have been released to EAI by other electric distribution utilities, when such release for service has been approved by the Commission pursuant to Rule 7.04.(b) of the Commission's Rules of Practice and Procedure. This schedule is also subject to the jurisdiction of the Tennessee Regulatory Authority where applicable.

3.2. AVAILABILITY

- 3.2.1. To any residential or commercial customer who takes service under the following standard rate schedules: General Purpose Residential Service (RS), Optional Residential Time-Of-Use (RT), Small General Service (SGS), Nonresidential General Farm Service (GFS), Large General Service (LGS), Large General Service Time-Of-Use (GST), Large Power Service (LPS) or Large Power Service Time-Of-Use (PST) who has installed a net metering facility and signed a Standard Interconnection Agreement for Net Metering Facilities with the Company. Such facilities must be located on the customer's premise and intended primarily to offset some or all of the customer's energy usage at that location.

The provisions of the customer's standard rate schedule are modified as specified herein.

- 3.2.2. Customers may not take service under this tariff and simultaneously take service under the provisions of any other alternative source generation or co-generation tariff.

3.3. MONTHLY BILLING

- 3.3.1. On a monthly basis, the net metering customer shall be billed charges applicable under the currently effective standard rate schedule and any appropriate rider schedules. Under net metering, only the kilowatthour (kWh) units of a customer's bill are affected.
- 3.3.2. If the electricity supplied by the Company exceeds the electricity generated by the net metering customer and fed back to the Company during the billing period, the net metering customer shall be billed for the net billable kWhs supplied by the Company in accordance with the rates and charges under the Company's standard rate schedule applicable to the customer.
- 3.3.3. If the electricity generated by the net metering customer and fed back to the Company during the billing period exceeds the electricity supplied by the Company, the customer shall not receive any compensation from the Company for such net metering excess delivered kWhs during the billing period.

TENNESSEE REGULATORY AUTHORITY

Original Sheet No. P13.16.1

Replacing: Sheet No.:

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric Class of Service: Residential/Commercial

Part IV. Policy Schedule No.: 13

Title: Contract Forms

APSC Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

TRA File Mark Only

13.16. STANDARD INTERCONNECTION AGREEMENT FOR NET METERING FACILITIES

I. STANDARD INFORMATION

Section 1. Customer Information

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Facility Location (if different from above): _____

Daytime Phone: _____ Evening Phone: _____

Company Customer Account (from electric bill): _____

Section 2. Generation Facility Information

System Type: Solar Wind Hydro Geothermal Biomass Fuel Cell Micro turbine

Generator Rating (kW): _____ AC or DC (circle one)

Describe Location of Accessible and Lockable Disconnect: _____

Inverter Manufacturer: _____ Inverter Model: _____

Inverter Location: _____ Inverter Power Rating: _____

Section 3. Installation Information

Attach a detailed electrical diagram of the net metering facility.

Installed by: _____ Qualifications/Credentials: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Installation Date: _____

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P13.16.3

Replacing:

Sheet No.:

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

APSC Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

Part IV. Policy Schedule No.: 13

Title: **Contract Forms**

TRA File Mark Only

II. INTERCONNECTION AGREEMENT TERMS AND CONDITIONS

This Interconnection Agreement for Net Metering Facilities ("Agreement") is made and entered into this _____ day of _____, 20____, by and between Entergy Arkansas, Inc. ("EAI" or the "Company") and _____ ("Customer"), a _____ (specify whether corporation or other), each hereinafter sometimes referred to individually as "Party" or collectively as the "Parties". In consideration of the mutual covenants set forth herein, the Parties agree as follows:

Section 1. The Metering Facility

The Net Metering Facility meets the requirements of Arkansas Code Ann. § 23-18-603(5) and the Arkansas Public Service Commission's Net Metering Rules.

Section 2. Governing Provisions

The parties shall be subject to the provisions of Arkansas Code Ann. § 23-18-604 and the terms and conditions set forth in this Agreement, the Net Metering Rules, and the Company's applicable tariffs.

Section 3. Interruption or Reduction of Deliveries

The Company shall not be obligated to accept and may require Customer to interrupt or reduce deliveries when necessary in order to construct, install, repair, replace, removed, investigate, or inspect any of its equipment or part of its system; or if it reasonably determines that curtailment, interruption, or reduction is necessary because of emergencies, forced outages, force majeure, or compliance with prudent electrical practices. Whenever possible, the Company shall give the Customer reasonable notice of the possibility that interruption or reduction of deliveries may be required. Notwithstanding any other provision of this Agreement, if at any time the Company reasonably determines that either the facility may endanger the Company's personnel or other persons or property, or the continued operation of the Customer's facility may endanger the integrity or safety of the Company's electric system, the Company shall have the right to disconnect and lock out the Customer's facility from the Company's electric system. The Customer's facility shall remain disconnected until such time as the Company is reasonably satisfied that the conditions referenced in this Section have been corrected.

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P13.16.4

Replacing:

Sheet No.:

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

APSC Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

Part IV. Policy Schedule No.: 13

Title: Contract Forms

TRA File Mark Only

Section 4. Interconnection

Customer shall deliver the as-available energy to the Company at the Company's meter.

Company shall furnish and install a standard kilowatt-hour meter. Customer shall provide and install a meter socket for the Company's meter and any related interconnection equipment per the Company's technical requirements, including safety and performance standards.

The customer shall submit a Standard Interconnection agreement to the Company at least thirty (30) days prior to the date the customer intends to interconnect the net metering facilities to the Company's facilities. Part I, Standard Information, Sections 1 through 4 of the Standard Interconnection Agreement must be completed for the notification to be valid. The customer shall have all equipment necessary to complete the interconnection prior to such notification. If mailed, the date of notification shall be the third day following the mailing of the Standard Interconnection Agreement. The Company shall provide a copy of the Standard Interconnection Agreement to the customer upon request.

Following notification by the customer as specified in Rule 3.01.C, the Company shall review the plans of the facility and provide the results of its review to the customer within 30 calendar days. Any items that would prevent parallel operation due to violation of applicable safety standards and/or power generation limits shall be explained along with a description of the modifications necessary to remedy the violations.

To prevent a net metering customer from back-feeding a de-energized line, the customer shall install a manual disconnect switch with lockout capability that is accessible to Company personnel at all hours. This requirement for a manual disconnect switch will be waived if the following three conditions are met: 1) The inverter equipment must be designed to shut down or disconnect and cannot be manually overridden by the customer upon loss of Company service; 2) The inverter must be warranted by the manufacturer to shut down or disconnect upon loss of Company service; and 3) The inverter must be properly installed and operated, and inspected and/or tested by Company personnel.

Customer, at his own expense, shall meet all safety and performance standards established by local and national electrical codes including the National Electrical Code (NEC), the Institute of Electrical and Electronics Engineers (IEEE), the National Electrical Safety Code (NESC), and Underwriters Laboratories (UL).

Customer, at his own expense, shall meet all safety and performance standards adopted by the Company and filed with and approved by the Commission pursuant to Rule 3.01.F that are necessary to assure safe and reliable operation of the net metering facility to the Company's system.

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P13.16.5

Replacing:

Sheet No.:

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

APSC Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

Part IV. Policy Schedule No.: 13

Title: Contract Forms

TRA File Mark Only

Customer shall not commence parallel operation of the net metering facility until the net metering facility has been inspected and approved by the Company. Such approval shall not be unreasonably withheld or delayed. Notwithstanding the foregoing, the Company's approval to operate the Customer's net metering facility in parallel with the Company's electrical system should not be construed as an endorsement, confirmation, warranty, guarantee, or representation concerning the safety, operating characteristics, durability, or reliability of the Customer's net metering facility.

Modifications or changes made to a net metering facility shall be evaluated by the Company prior to being made. The Customer shall provide detailed information describing the modifications or changes to the Company in writing prior to making the modification to the net metering facility. The Company shall review the proposed changes to the facility and provide the results of its evaluation to the Customer within thirty (30) calendar days of receipt of the Customer's proposal. Any items that would prevent parallel operation due to violation of applicable safety standards and/or power generation limits shall be explained along with a description of the modifications necessary to remedy the violations.

Section 5. Maintenance and Permits

The customer shall obtain any governmental authorizations and permits required for the construction and operation of the net metering facility and interconnection facilities. The Customer shall maintain the net metering facility and interconnection facilities in a safe and reliable manner and in conformance with all applicable laws and regulations.

Section 6. Access to Premises

The Company may enter the Customer's premises to inspect the Customer's protective devices and read or test the meter. The Company may disconnect the interconnection facilities without notice if the Company reasonably believes a hazardous condition exists and such immediate action is necessary to protect persons, or the Company's facilities, or property of others from damage or interference caused by the Customer's facilities, or lack of properly operating protective devices.

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P13.16.6

Replacing:

Sheet No.:

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

APSC Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

Part IV. Policy Schedule No.: 13

Title: Contract Forms

TRA File Mark Only

Section 7. Indemnity and Liability

Each party shall indemnify the other party, its directors, officers, agents, and employees against all loss, damages expense and liability to third persons for injury to or death of persons or injury to property caused by the indemnifying party's engineering design, construction ownership or operations of, or the making of replacements, additions or betterment to, or by failure of, any of such party's works or facilities used in connection with this Agreement by reason of omission or negligence, whether active or passive. The indemnifying party shall, on the other party's request, defend any suit asserting a claim covered by this indemnity. The indemnifying party shall pay all costs that may be incurred by the other party in enforcing this indemnity. It is the intent of the parties hereto that, where negligence is determined to be contributory, principles of comparative negligence will be followed and each party shall bear the proportionate cost of any loss, damage, expense and liability attributable to the party's negligence.

Nothing in this Agreement shall be construed to create any duty to, any standard of care with reference to or any liability to any person not a party to this Agreement. Neither the Company, its officers, agents or employees shall be liable for any claims, demands, costs, losses, causes of action, or any other liability of any nature or kind, arising out of the engineering, design construction, ownership, maintenance or operation of, or make replacements, additions or betterment to, the Customer's facilities by the Customer or any other person or entity.

Section 8. Notices

All written notices shall be directed as follows:

COMPANY

Attention:

Mr. Mike Glancy

ENTERGY ARKANSAS, INC.

#9 Entergy Court

Little Rock, Arkansas 72211

CUSTOMER

Attention:

Name: _____

Address: _____

City: _____

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P13.16.7

Replacing:

Sheet No.:

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

APSC Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

Part IV. Policy Schedule No.: 13

Title: Contract Forms

TRA File Mark Only

Customer notices to Company shall refer to the Customer's electric service account number set forth in Section 1 of this Agreement.

Section 9. Term of Agreement

The term of this Agreement shall be the same as the term of the otherwise applicable standard rate schedule. This Agreement shall remain in effect until modified or terminated in accordance with its terms or applicable regulations or laws.

Section 10. Assignment

This Agreement and all provisions hereof shall inure to and be binding upon the respective parties hereto, their personal representatives, heirs, successors, and assigns. The Customer shall not assign this Agreement or any part hereof without the prior written consent of the Company, and such unauthorized assignment may result in termination of this Agreement.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives.

Dated this _____ day of _____, 20____.

Customer:

Company:

ENTERGY ARKANSAS, INC.

By: _____

Title: _____

Mailing Address: _____

By: _____

Title: _____

Mailing Address: _____

TENNESSEE REGULATORY AUTHORITY

1st Revised

Sheet No. P13.2.2

Replacing: Original

Sheet No. P13.2.2

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: All

Part IV. Policy Schedule No.: 13

Title: Contract Forms

Docket No.: 02-149-TF

Order No.: 1

Effective: 9/20/02

TRA File Mark Only

Experimental Energy Reduction (EER) Enabling Agreement

13.15.

Standard Interconnection Agreement for Net Metering Facilities

13.16.

(AT)

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P14.1

Replacing:

Sheet No.

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

Docket No.: 02-202-TF

Order No.: 2

Effective: 5/13/03

Part IV. Policy Schedule No.: 14

Title: **Safety and Performance Standards for Net Metering Facilities**

TRA File Mark Only

14.0. SAFETY AND PERFORMANCE STANDARDS FOR NET METERING FACILITIES

(N)

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TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P14.2

Replacing:

Sheet No.

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

Docket No.: 02-202-TF

Order No.: 2

Effective: 5/13/03

Part IV. Policy Schedule No.: 14

Title: **Safety and Performance Standards for Net Metering Facilities**

TRA File Mark Only

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TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P14.3

Replacing:

Sheet No.

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

Docket No.: 02-202-TF

Order No.: 2

Effective: 5/13/03

Part IV. Policy Schedule No.: 14

Title: Safety and Performance Standards for Net Metering Facilities

TRA File Mark Only

1.0 Introduction

1.1 Purpose

The purpose of these safety and performance standards for renewable energy facilities is to describe the requirements and procedures for safe and effective interconnection and operation of renewable energy facilities under the Arkansas Public Service Commission (APSC or Commission) Net Metering Rules (the Rules).

A Net Metering Customer may operate a renewable energy facility at 60 Hertz (Hz), single- or three-phase at voltages up to and including 34.5 kV in parallel with the Company's distribution delivery system pursuant to an interconnection agreement, provided that the equipment meets or exceeds the requirements of this standard.

This standard describes typical interconnection requirements. Some installations, however, may require more extensive interconnection facilities, and will be addressed on a case by case basis. This is most likely to be required when several Net Metering Customers desire to connect renewable energy facilities to the same transformer or on the same distribution feeder.

1.2 Scope

The Rules provide that renewable energy facilities, sized according to the Rules, may be installed within the Company's service area on the Net Metering Customer's side of the meter. These facilities will be connected to the distribution delivery system when the distribution delivery system is operating under normal conditions. Some or all of the Net Metering Customer's load may be supplied with energy by the renewable energy facility. Under the Net Metering Rules, the Company's facilities will be available to handle the Net Metering Customer's entire load as needed.

The Rules provide for a maximum size of renewable energy facilities depending on the Net Metering Customer's rate class. Residential applications are limited to a maximum of 25 kW. Commercial applications are limited to a maximum of 100 kW.

The provisions contained in this document are the minimum requirements for safe and effective interconnection and operation of renewable energy facilities operating in parallel with the Company's distribution delivery system pursuant to the Rules.

2.0 Definitions

Abnormal operating conditions – A situation in which the Company is operating the distribution delivery system in a manner inconsistent with normal configuration or under conditions that do not normally exist. Examples of abnormal operating conditions are: (1) times of high usage on the Company's system when Customers are requested to conserve energy or, (2) times when the Company must switch distribution feeder circuits out of use for repairs and switch other alternate feeders into use to deliver energy to Customers.

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P14.4

Replacing:

Sheet No.

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

Docket No.: 02-202-TF

Order No.: 2

Effective: 5/13/03

Part IV. Policy Schedule No.: 14

Title: Safety and Performance Standards for Net Metering Facilities

TRA File Mark Only

Company - Entergy Arkansas Inc. (EAI)

Customer - Any entity interconnected to the Company's distribution delivery system who takes electric service under one of EAI's rate schedules.

Displaced load - The Net Metering Customer's entire electrical requirement or a portion of it that, except for the output of the Net Metering Customer's renewable energy facilities, would have been served by the Company.

Distribution delivery system - The Company's wires, equipment, and facilities having a voltage of 34.5 kV or below to which the Net Metering Customer's renewable energy facility is interconnected.

Interconnection - The physical connection of renewable energy facilities and the net metering facilities to the distribution delivery system in accordance with the requirements of this standard so that parallel operation can occur.

Interconnection agreement - The Standard Interconnection Agreement for Net Metering Facilities approved by the Commission in EAI Policy Schedule 13.16.

Interconnection facilities - All facilities installed solely to interconnect the Net Metering Customer's system with that of the Company to facilitate the exchange of power between the Net Metering Customer's renewable energy facilities and the Company's power system including, but not limited to, connection, transmission, distribution, engineering, transformation, switching, metering, and safety equipment. Interconnection facilities shall include any additions and/or modifications to the Company's system deemed by the Company to be necessary.

Network service - Two or more primary distribution feeder sources electrically connected on the secondary (or low voltage) side to form one power source for one or more Customers. This configuration is designed to maintain service to the Customers even after the loss of one of these primary distribution feeder sources.

Net Metering Customer - Any Customer with a renewable energy facility that takes service under EAI's net metering tariff.

Net Metering Facility - The hardware and software installed to measure the energy flow both into and out of the Net Metering Customer's facilities for the purpose of determining the usage for billing, if any.

Parallel operation - The operation of renewable energy facilities by a Net Metering Customer while the Net Metering Customer's facilities are physically and electrically interconnected to the Company's distribution delivery system.

TENNESSEE REGULATORY AUTHORITY

Original

Sheet No. P14.5

Replacing:

Sheet No.

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

Docket No.: 02-202-TF

Order No.: 2

Effective: 5/13/03

Part IV. Policy Schedule No.: 14

Title: **Safety and Performance Standards for Net Metering Facilities**

TRA File Mark Only

Point of common coupling (PCC) - The point where transfer of any electric power between the Customer's facilities and the Company's distribution delivery system takes place, normally at the point of attachment.

Pre-interconnection study - A study or studies that may be conducted by the Company in response to its receipt of a completed interconnection agreement. Pre-interconnection studies may include, but are not limited to:

- (a) **Service study** - An on-site analysis used to determine the interconnection requirements and the system voltage for providing parallel service to a Net Metering Customer with a renewable energy facility. All net metering facilities will require this study.
- (b) **Coordination study** - An engineering analysis that determines whether the presence of the renewable energy facility would interfere with the protective fusing and relaying on the distribution delivery system. It includes an analysis of the renewable energy facilities' contribution to power flow, available fault current, capacitor bank impact, and effects of voltage under normal and worst case situations. Typically, this would be required when more than one Net Metering Customer is or desires to be attached to the same distribution transformer or feeder circuit.
- (c) **Distribution delivery system impact study** - An engineering study that models the distribution delivery system with the proposed renewable energy facilities in place. The modeling must determine whether the distribution delivery system will be able to support the proposed renewable energy facility without reliability problems or interruptions in service to other Customers. The study must also include a transient analysis to determine the potential for stability problems. If the model and transient studies indicate that power can flow back to the substation and consequently onto the transmission grid, then similar assessments will be required for the transmission system. This type of study would be required when several Net Metering Customers have renewable energy facilities interconnected on the same feeder circuit and the total output of all interconnected renewable energy facilities on that feeder is 50% or more of the feeder circuit's base load.
- (d) **Secondary network study** - An engineering analysis to specifically determine whether a renewable energy facility can be safely added to a secondary network. Typically, this study would be required when a Net Metering Customer's renewable energy facility is proposed for interconnection to a secondary network.

Protective function - A system that uses hardware (including switching devices), relay protection schemes and software that prevents unsafe operating conditions from occurring before, during, and after the interconnection of the renewable energy facility with the distribution delivery system. This system will be designed to isolate the Net Metering Customer's renewable energy facility or to disconnect it from the distribution delivery system under abnormal operating conditions or outages.

TENNESSEE REGULATORY AUTHORITY

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Sheet No. P14.6

Replacing:

Sheet No.

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: Residential/Commercial

Docket No.: 02-202-TF

Order No.: 2

Effective: 5/13/03

Part IV. Policy Schedule No.: 14

Title: Safety and Performance Standards for Net Metering Facilities

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Quality of service - An operating state of the distribution delivery system that provides usable power to a Customer. This state of usable power includes the parameters specified for power factor (Section 3.9.7), voltage surges and sags (Section 3.9.8), voltage flicker (Section 3.9.9), frequency (Section 3.9.10) and harmonics (Section 3.9.11).

Renewable energy facility - A system of hardware and software by which electric energy is generated using sun, wind, water, or biomass products as the source and as allowed to be interconnected to the Company's distribution system under the Rules.

Stabilized - The distribution delivery system is considered stabilized when, following a disturbance, the system returns to the normal range of voltage and frequency for a duration of two minutes.

Standard of care - A term defining the level of awareness to maintain workplace and public safety in the design, installation and operation of facilities which generate power.

System protection facilities - The equipment required to protect the Company's system and its other Customers' facilities from unsafe operating conditions occurring at the Net Metering Customer's renewable energy facilities. The protection requirements shall be met at the PCC, although the devices and functions providing the protective functions can be located elsewhere.

Unsafe operating conditions - A situation that if left uncorrected would result in: (1) harm to any personnel or damage to any equipment, (2) unacceptable system stability or, (3) operation outside established parameters affecting the quality of service to other Customers connected to the distribution delivery system.

3.0 Details

3.1 Available Voltage Systems

The Company's primary distribution delivery systems available for parallel generation operations are of grounded wye or closed delta configurations. Generally, all secondary voltage levels from 120/240 V to 34.5 kV single-phase or three-phase (except open-delta and open-wye) are available for interconnection. Open-delta and open-wye secondary voltage configurations require special evaluation prior to interconnection. The voltage level available for connecting the renewable energy facility in parallel with the system depends on the desired location on the Company's distribution delivery system and the size of the Net Metering Customer's renewable energy facility.

3.2 Reasons for Disconnection from the Distribution Delivery System

The Company may disconnect the Net Metering Customer's renewable energy facility from the distribution delivery system under the following conditions:

- (1) Upon expiration or termination of the interconnection agreement;
- (2) Non-compliance of the Net Metering Customer's facility with any of the requirements in this document;

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- (3) System emergency -
 - The Company may temporarily disconnect a Net Metering Customer's facility without prior written notice in cases where continued interconnection will endanger persons or property;
 - During the forced outage of the distribution delivery system, the Company shall have the right to temporarily disconnect a Net Metering Customer's facility to make immediate repairs on the distribution delivery system;
- (4) During routine maintenance, repairs, and modifications to the Company's distribution system;
- (5) Lack of approved interconnection agreement -

In order to interconnect the Net Metering Customer's renewable energy facility to the Company's distribution delivery system a Net Metering Customer must first submit to the Company an executed Standard Interconnection Agreement for Net Metering. The Company may refuse to connect or may disconnect the Net Metering Customer's facility if such agreement has not been received and approved.

When possible, the Company will provide the Net Metering Customer with reasonable notice of disconnection and will reconnect the Net Metering Customer as quickly as reasonably practical.

3.3 Pre-Interconnection Studies for Interconnection of Renewable Energy Facilities Under Net Metering Rules

The Company shall conduct one or more pre-interconnection studies prior to interconnection of renewable energy facilities under the Rules.

Secondary network systems are designed such that they do not allow reverse current flow. This and other aspects of secondary network systems create technical difficulties that may make interconnection more costly to implement. The ability of the Company to connect a Net Metering Customer's renewable energy facility in parallel with the system may be limited if a Net Metering Customer who is served from a secondary network system requests interconnection. The Company may conduct pre-interconnection and network studies to determine to what extent the renewable energy facility may be safely added to the network or may be accommodated in some other fashion.

3.4 System Changes

3.4.1 Company Changes to Distribution Delivery System

The distribution delivery system is a dynamic and changing system. If the Company changes the distribution voltage, the Net Metering Customer will be responsible for paying for all modifications to the Net Metering Customer's facilities required for reconnecting to the Company's reconfigured distribution delivery system. The Company will notify the Net Metering Customer of reconfiguration programs.

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3.4.2 Net Metering Customer Changes to Interconnection

The Net Metering Customer shall notify the Company to obtain prior approval for any proposed modifications to the interconnecting scheme.

3.5 Allowable Tie Points

Normally, only one tie point between the Net Metering Customer's facilities and the Company's distribution delivery system will be allowed.

3.6 Energy Flow during Emergencies

Power flow from or to a Net Metering Customer's facilities during periods of system emergencies may be discontinued according to the APSC's rules, and the Company's Tariff, rates, riders or contract with the Net Metering Customer.

3.7 Types of Allowed Generators

Single- or three-phase alternating current generating units may be operated in parallel with the distribution delivery system when used as part of a renewable energy facility. They may be synchronous generators, induction generators, or inverter-controlled systems. The total connected capacity shall not exceed 25 kW for residential installations and 100 kW for commercial installations. Direct-current generation shall not be connected to the Company's alternating-current distribution delivery system.

3.7.1 Limits on Three-Phase Generators

If three-phase service is not available in the area or if Company facilities must be upgraded or otherwise modified in order to enable the Net Metering Customer to connect to these facilities, the Net Metering Customer must pay for the additional cost for such service or improvements as determined by the Company. The Company reserves the right to refuse three-phase service under certain circumstances per the Company's extension policy.

3.7.2 Limits on Single-Phase Generators

Where necessary, to avoid the potential for renewable energy facilities to affect the service to other Customers, the Company may limit the capacity and operating characteristics of single-phase generators in a manner consistent with its existing limitations for single-phase motors. A single-phase renewable energy facility shall be limited to a capacity of 25 kW or less.

3.8 Explicit Criteria for Parallel Operations

A Net Metering Customer shall be permitted to interconnect and operate a renewable energy facility in parallel with the Company's distribution delivery systems provided that all of the following criteria are met throughout the life of the interconnection.

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3.8.1 Safety

In general, the Net Metering Customer's renewable energy facility will be held to the same standard of care as the Company is required to maintain. The safety of the general public and the personnel and equipment of the Company shall in no way be reduced or impaired as a result of the interconnection. Also, two installation criteria must be met:

- (1) The Net Metering Customer's renewable energy facility shall be equipped with protective functions designed to prevent the renewable energy facility from being connected to a de-energized circuit owned by the Company. The design of some systems provides this function without adding equipment at the PCC. Each system not providing additional devices at the PCC must be shown to be capable of these functions.
- (2) The Net Metering Customer's renewable energy facility shall be equipped with the necessary protective functions designed to prevent connection or parallel operation of the Net Metering Customer's facility with the distribution delivery system unless the distribution delivery system service voltage and frequency are of normal magnitude.

3.8.2 Impact of Interconnection

The quality, reliability and the availability of delivery service to the Company's other Customers shall not be diminished or impaired as a result of the interconnection.

3.9 General Interconnection Requirements

The Net Metering Customer's renewable energy facility shall meet the technical requirements as prescribed in this section.

3.9.1 Net Metering Customer's Equipment and Interconnection Standards

The Net Metering Customer's renewable energy facility, net metering facilities and interconnection installation must meet all applicable national, state, and local construction and safety codes.

The Net Metering Customer shall be responsible for the design, installation, operation and maintenance of all equipment and facilities installed or that will be installed on the Net Metering Customer's side of the PCC specified by the parties involved. Such design shall meet the latest standards of Institute of Electrical and Electronic Engineers, National Electric Manufacturers Association, American National Standards Institute, National Electric Code, other national codes and any local codes pertaining to the design and construction of electrical facilities in effect at the time of installation. The facility shall be subject to the requirements of all authorities having jurisdiction and shall comply with all applicable codes and ordinances.

3.9.2 Rating of Net Metering Customer's Equipment

The equipment selected by the Net Metering Customer shall be rated for continuous parallel operation with the Company's system.

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Renewable energy facilities that are designed to be used as stand-by or emergency power facilities shall not be interconnected to the Company's distribution delivery system for parallel operations under the Rules. Such an emergency power facility must not be interconnected to the Company's system. The Customer's facilities shall be disconnected from the Company's system prior to the Customer's use of stand-by or emergency facilities.

Net Metering systems that are intended to provide the customer with power during periods when the Company's facilities are unavailable shall be equipped with a transfer switch to prevent energizing a non-energized Company circuit consistent with sections 3.13.3.3 and 3.8.1 of this policy.

3.9.3 Protection of Net Metering Customer's Equipment

The Net Metering Customer will be responsible for protecting its facilities in such a manner that distribution delivery system outages, short circuits or other disturbances, including zero sequence currents and ferroresonant over-voltages, do not damage the Net Metering Customer's facilities.

The Net Metering Customer's protective equipment shall be installed to prevent the renewable energy facility from causing unnecessary tripping of the distribution delivery system breakers that would affect the distribution delivery system's ability to provide reliable service to other Customers.

3.9.4 Required Drawings

Adequate drawings of the Net Metering Customer's proposed renewable energy facility, which will include a one line diagram and proposed relay systems, must be submitted to the Company for review during the planning stage. Additional drawings may be required on a case by case basis.

3.9.5 Changes to Company Facilities

The total cost of any additional equipment that must be installed by the Company on its distribution delivery system to allow parallel operation must be paid for by the Net Metering Customer, including the transformers and any facilities which must be added due to increased fault current or special operating conditions.

3.9.6 Reactive Power Requirements

The Net Metering Customer's renewable energy facility shall normally be responsible for supplying the facility's own reactive power as required by the load to which it supplies power.

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3.9.7 Power Factor

The power factor of the renewable energy facility at the PCC shall be according to the appropriate rate schedule for this installation. The presence of the renewable energy facility shall not cause the power factor to be lower than it was prior to installation and operation of the renewable energy facility.

3.9.8 Voltage Surges or Sags

The Net Metering Customer will operate its renewable energy facility in such a manner that the voltage levels on the distribution delivery system are in the same range (+5.0 % or -5% from nominal voltage) as if the facilities were not connected to the Company's system. The Net Metering Customer shall be responsible for any damages to the Net Metering Customer's facilities, and shall be liable for any damages to the Company's facilities or the facilities of other Customers due to any under voltage or over voltage contribution from the renewable energy facility.

3.9.9 Voltage Flicker

The renewable energy facility shall not create objectionable flicker for the Company's other Customers. As a guide to identifying objectionable flicker the "Border Line of Irritation" curve is included in section 5.1. The creation of objectionable flicker shall result in disconnection by the Company until such time that all objectionable flicker problems are corrected.

3.9.10 Frequency

The operating frequency of the Net Metering Customer's renewable energy facility shall not deviate more than +0.5 Hz or -0.7 Hz from a 60 Hz base. The Net Metering Customer's facility shall automatically disconnect from the distribution delivery system within 15 cycles if this frequency tolerance cannot be maintained. The Net Metering Customer may reconnect no sooner than three minutes after the distribution delivery system voltage and frequency have returned to normal range and the system has been stabilized.

3.9.11 Harmonics

In accordance with IEEE 519 the total harmonic distortion (THD) voltage shall not exceed 5.0% of the fundamental 60 Hz frequency nor 3.0% of the fundamental frequency for any individual harmonic when measured at the PCC.

3.10 Inspection Prior to Operations and Additional Requirements

The Company reserves the right to impose any herein described but unmet requirements and to make subsequent final inspection before the renewable energy facility operates to verify that all such unmet requirements have been satisfied. However, the Company has no actual or implied responsibility in this regard. The Net Metering Customer shall be responsible for making necessary changes, at the Net Metering Customer's expense, to the facility should such changes be required.

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Inspection by the Company of the Net Metering Customer's equipment and interconnection facilities shall not constitute a determination by the Company of the continuing suitability of such equipment and interconnection. An inspection by the Company shall in no way constitute a warranty or representation by the Company against future negligence, misuse, faulty repairs, or subsequently developing defects, and the Company assumes no responsibility or liability therefor.

3.11 Responsibility for Net Metering Customer's Operations

The Company is not responsible for proper operations of the Net Metering Customer's renewable energy facility upon and after interconnection to the Company's distribution delivery system.

3.12 Responsibility for Net Metering Customer's Annual Maintenance

Annual maintenance of the Net Metering Customer's facility is the Net Metering Customer's sole responsibility. The Net Metering Customer shall maintain records of such maintenance activities, which the Company may review at reasonable times. Such maintenance records shall be made available for the Company's inspection upon request. The Company reserves the right to inspect the records, but has no responsibilities for maintenance either actual or implied.

3.13 Protection/Interface Requirements

Protecting both the Net Metering Customer's facilities and the Company's system are of great importance. Proper protective systems shall be established in the design phase and confirmed prior to start-up of the Net Metering Customer's renewable energy facility. An interconnection between the Company and the Net Metering Customer will not be allowed prior to the proper coordination of protective devices. The Net Metering Customer shall be responsible for providing to the Company the necessary documentation certifying that maintenance and testing have been satisfactorily performed.

3.13.1 Changes to Company Fault Interruption Equipment

Renewable energy facilities that are installed on the Company's distribution delivery system will provide additional fault current to the distribution delivery system. Thus, it is possible that the added facilities will necessitate the modification of the existing fault interrupting devices on the distribution feeder. The Net Metering Customer will be responsible for paying the cost of these changes to the Company's system.

It is also possible that the added facilities will increase the available fault current on the distribution delivery system beyond the interrupting capability of the existing devices on the distribution delivery system. The Net Metering Customer may be required to limit the fault current contribution from the renewable energy facility. Should the Company also be required to make changes, the Net Metering Customer shall pay the cost of the required changes. The issues will be examined on a case-by-case basis.

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3.13.2 Tests of the Net Metering Customer's Equipment

The Company reserves the right, but has no responsibility either actual or implied, to observe the Net Metering Customer's tests and/or inspection of any of the Net Metering Customer's protective equipment that is essential to the interconnection, including relays, circuit breakers, protective devices and related equipment. Inspection may include simulated test tripping of the Net Metering Customer's interconnection breakers by the protective relays to verify all protective set points and relay/breaker trip timing prior to interconnection to the Company system.

Inspection by the Company of the Net Metering Customer's equipment and interconnection facilities shall not constitute a determination by the Company of the continuing suitability of such equipment and interconnection. An inspection by the Company shall in no way constitute a warranty or representation by the Company against future negligence, misuse, faulty repairs, or subsequently developing defects, and the Company assumes no responsibility or liability therefor.

The Net Metering Customer shall provide the Company with notice at least two weeks before the initial energizing and start-up testing of the Net Metering Customer's facilities so that the Company may witness the testing of any equipment and protective systems associated with the interconnection.

If upon connecting to the Company's system a system emergency develops, safety issues arise, or the quality of service to other Net Metering Customers is affected, the Company may then require additional inspections or tests of the Net Metering Customer's protective equipment.

3.13.3 Specifying Protective Equipment

The Company will have the right to specify certain protective devices, including relays and circuit breakers that the Net Metering Customer must install. The Company will specify all relay settings on the intertie. Settings of interconnection protective devices on the Net Metering Customer's system will be specified by the Net Metering Customer, but will be checked, coordinated with, and reviewed by the Company before application and after subsequent modification.

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3.13.3.1 Service Interruption Equipment

The Net Metering Customer shall provide an automatic method of disconnecting the renewable energy facility from the distribution delivery system when either of the following conditions occurs. The renewable energy facility shall be automatically disconnected from the Company's distribution delivery system if (1) a sustained voltage deviation in excess of +5.0 % or -10% from nominal voltage persists for more than 30 seconds, or (2) a deviation in excess of +10% or -30% from nominal voltage persists for more than ten cycles. The Net Metering Customer may reconnect no sooner than three minutes after the distribution delivery system voltage and frequency have returned to normal range and the system has been stabilized. The design of some systems provides this function without adding equipment at the PCC. Each system not providing additional devices at the PCC must be shown to be capable of these functions.

3.13.3.2 Fault Interrupting Device

The Net Metering Customer shall install a fault-interrupting device between the Company and the renewable energy facility. Circuit breakers or other interrupting devices shall be capable of interrupting maximum available fault current at the PCC. The Company will approve such fault-interrupting device, which is likely to vary in design depending on location, available fault current, and size of the Net Metering Customer's facility.

Since most short circuits on overhead lines are of a temporary nature, it is the Company's normal practice to automatically reclose the substation circuit breaker on overhead lines after an automatic trip. Instantaneous reclosing (10-15 cycles) of circuit breakers and line reclosers may also be used. The Net Metering Customer shall be responsible for automatically disconnecting its facilities from the Company's distribution system prior to the automatic or instantaneous reclosing of a Company's substation circuit breaker or line recloser. The Net Metering Customer's disconnecting device shall not automatically or manually reclose sooner than 30 seconds after the return of the Company's service voltage to normal magnitude and phase sequence following a recloser operation.

For renewable energy facilities using an inverter system, no other fault-interrupting device is required. The inverter interrupts the fault.

3.13.3.3 Equipment to Block Energizing Dead Circuits

Under no condition will the Net Metering Customer be permitted to energize a non-energized Company distribution circuit. The Net Metering Customer shall install equipment to effectively block the renewable energy facility from energizing a non-energized Company circuit. The design of some systems provides this function without adding equipment at the PCC. Each system not providing additional devices at the PCC must be shown to be capable of these functions.

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3.13.3.4 Control, Protection and Safety Equipment Requirements For Specific Technologies

Various technologies require unique control, protection, and safety equipment to be installed. The specifications in this section list those requirements unique to the technologies.

3.13.3.4.1 Synchronous Generators

For a Net Metering Customer's synchronous generator, circuit breakers shall be three-phase devices with electronic or electro-mechanical control. The Net Metering Customer is solely responsible for properly synchronizing its generator with the Company's distribution delivery system. The excitation system response ratio shall be 0.5 or greater. The generator's excitation system(s) shall conform, as near as reasonably achievable, to the field voltage versus time criteria specified in American National Standards Institute Standard C50.13-1989 in order to permit adequate field forcing during transient conditions.

3.13.3.4.2 Induction Generators and Inverter Systems

Induction generation may be connected and brought up to synchronous speed (as an induction motor) if it can be demonstrated that the initial voltage drop measured on the distribution delivery system side of the PCC is within the allowable visible flicker standard in section 5.1. Otherwise, the Net Metering Customer may be required to install hardware or employ other techniques to bring voltage fluctuations to acceptable levels.

Self-commutated inverters whether of the utility-interactive type or stand-alone type shall be used in parallel with the distribution delivery system only with synchronizing equipment. Line-commutated inverters do not require synchronizing equipment.

3.14 Susceptibility to Transmission Faults

Faults, single-phasing events or other abnormal operating conditions occurring on the Company's transmission system could affect a Net Metering Customer's facilities connected to the Company's distribution delivery system. It is the Net Metering Customer's responsibility to protect the Net Metering Customer's facilities from these conditions.

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3.15 Synchronizing Requirements

The Net Metering Customer shall be solely responsible for synchronizing and properly connecting and disconnecting its electrical system relative to parallel operation with the Company's system. The Net Metering Customer shall provide an automatic synchronizing scheme to prevent the closing of its circuit breaker when the two electrical systems are out of synchronism.

The Net Metering Customer's renewable energy facility shall be automatically disconnected if its frequency should deviate more than +0.5 Hz or -0.7 Hz from the 60 Hz base. (See section 3.9.10 Frequency.)

The synchronizing system of the Net Metering Customer must allow the Net Metering Customer's facilities to be operated in parallel only when the Company's distribution system is energized from the Company's system at the PCC.

3.16 Metering Requirements

The metering equipment is usually installed on the Net Metering Customer's premises (on Net Metering Customer owned building, pole or structure) as part of the service entrance equipment. Therefore provisions must be made for it in the Net Metering Customer's installation. Based on the applicable rate schedule and the Company's standard practices, the Net Metering Customer will provide the meter socket and the Company will supply the special meter that will measure the Net Metering Customer's energy flow.

The Net Metering Customer will be required to provide the Company with information regarding the total connected load. The Net Metering Customer may be required to provide and / or install the meter socket, metering transformer enclosure, and adequate attachments or devices for attaching Company's metering facilities to the building. For additional information see the Company's Customer Installation Standards for Electric Service.

3.17 Standard Interconnection Agreement Requirements

A written agreement will be required between the Company and the Net Metering Customer specifying the liability provisions, indemnities, terms of payment of cost to modify distribution delivery system (if not paid in advance), and other items affecting service under this document. This agreement will explain in detail the authority or responsibilities of the parties involved. **An interconnection between the Company's distribution delivery system and a Net Metering Customer's renewable energy facility will not be allowed prior to the execution of a written Standard Interconnection Agreement for Net Metering Facilities.**

4.0 References

IEEE Guide for Protective Relaying of Utility-Consumer Interconnection C37.95 (Latest revision)

IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems, 519-1992

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IEEE Recommended Practice for Electric Power Distribution for Industrial Plants, 141-1993

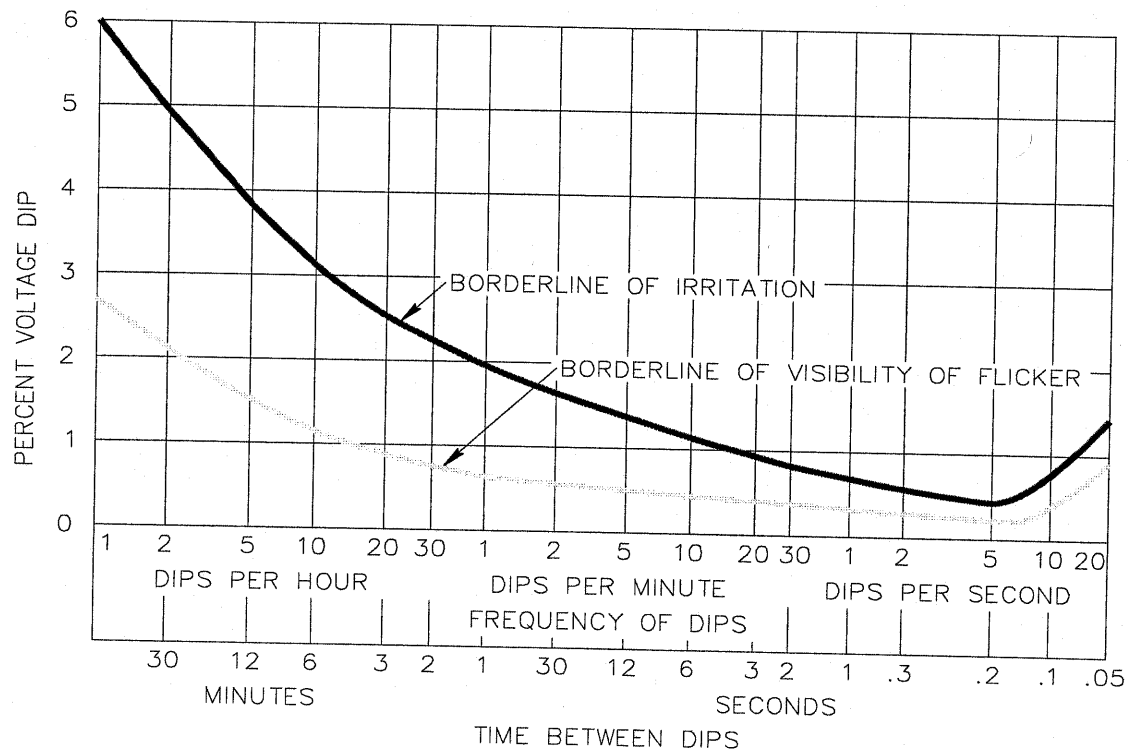
5.0 Attachments

5.1 Flicker Chart

5.2 Net Metering Technical Requirements Compliance Checklist

5.3 Process Flowchart

5.1 Flicker Chart



Flicker Curve. Source: IEEE Std. 141-1993

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5.2 Net Metering Technical Requirements Compliance Checklist

This checklist is a summary of the requirements that can be found in detail in this document (Section numbers are provided after each requirement.) Two objectives must be met to arrive at compliance by the proposed installation:

1. **Safety:** The Net Metering Customer's renewable energy facility will be held to the same standard of care, as the Company is required to maintain. In addition, the safety of the general public and the personnel and equipment of the Company shall in no way be reduced or impaired as a result of the interconnection.
2. **Customer Impact:** The quality, reliability and the availability of service to the Company's other Customers shall not be diminished or impaired as a result of the interconnection.

ENTERGY REQUIREMENT	
1. Supply reactive power. (3.9.6)	
Description of Proposed Compliance:	
Comment:	
2. Identify power factor. (3.9.7)	
Description of Proposed Compliance:	
Comment:	
3. Limit voltage surges to range of +5% of nominal voltage. (3.9.8)	
Description of Proposed Compliance:	
Comment:	
4. Limit voltage sags to -5% of voltage. (3.9.8)	
Description of Proposed Compliance:	
Comment:	
5. Limit voltage flicker. (3.9.9)	
Description of Proposed Compliance:	
Comment:	
6. Limit harmonic voltage and current. (3.9.11)	
Description of Proposed Compliance:	
Comment:	
7. Disconnect intertie within 10 cycles of a service interruption or fault. (3.13.3.1, 3.13.3.2)	
Description of Proposed Compliance:	
Comment:	

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ENTERGY REQUIREMENT (continued)
8. Install fault-interrupting device. (3.13.3.2)
Description of Proposed Compliance:
Comment:
9. Block generator from energizing dead circuits. (3.13.3.3)
Description of Proposed Compliance:
Comment:
10. Specify protective devices and settings. (3.13.3.4)
Description of Proposed Compliance:
Comment:

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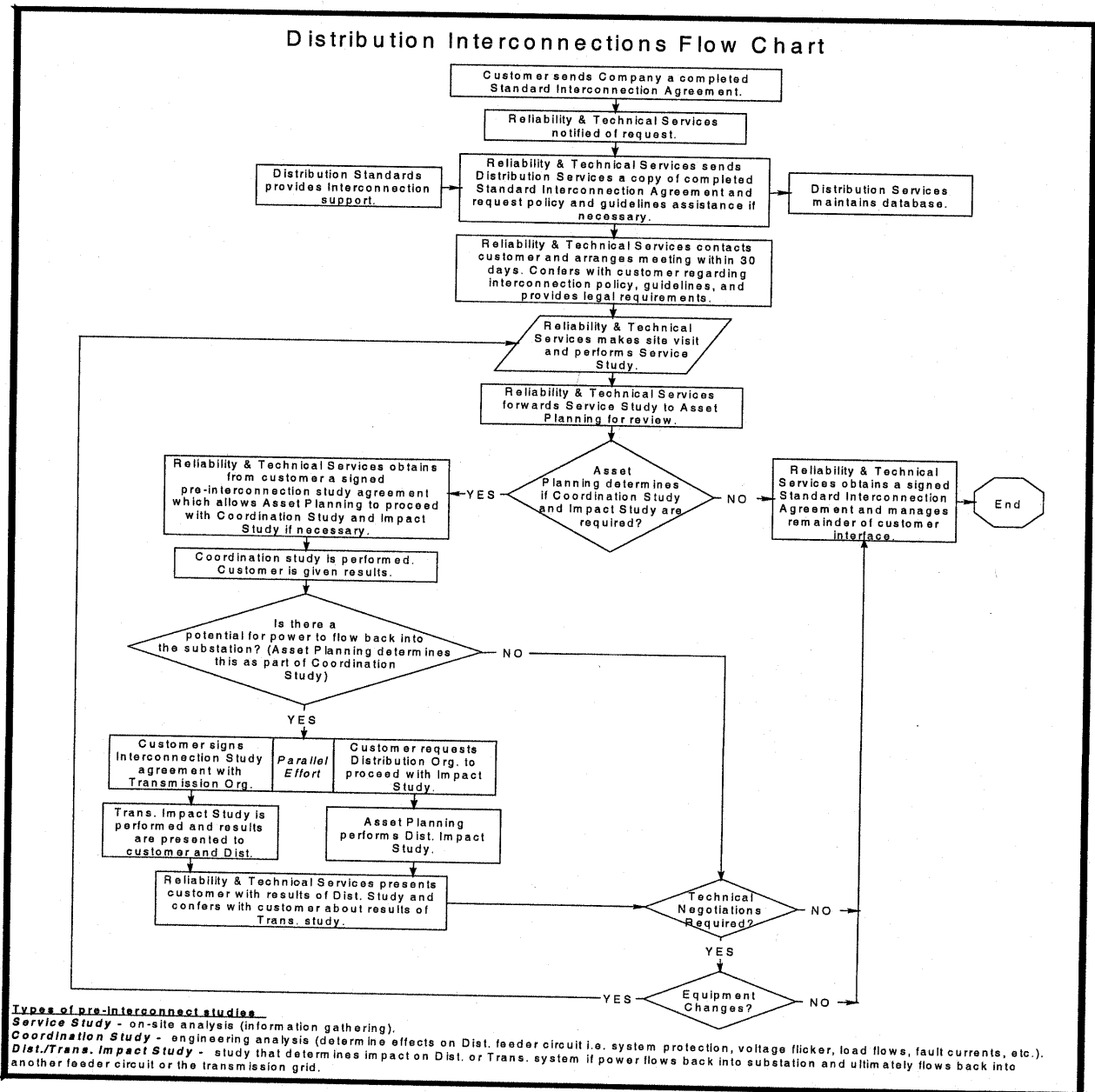
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5.3 Process Flowchart



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APSC Docket No.: 02-149-TF

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Effective: 9/20/02

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TENNESSEE REGULATORY AUTHORITY

4th Revised

Sheet No. TC-6

Replacing 3rd Revised

Sheet No. TC-6

Entergy Arkansas, Inc.

Name of Company

Kind of Service: Electric

Class of Service: All

APSC Docket No.: 02-202-TF

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The Arkansas Renewable Energy Development Act of 2001 permits interconnections between electric companies and individual customers who choose to generate some or all of their own electricity with renewable resources.

In response to the act, the Arkansas Public Service Commission has adopted rules for utilities and customers to follow in connecting customer-owned generation equipment to the utility grid. Only generation that depends on qualifying renewable energy sources is eligible. These sources might include solar, wind, hydroelectric, geothermal or biomass and are limited to outputs of 25 kilowatts for residential and 100 kilowatts for commercial or general farm use.

The rules set connection standards and metering and billing requirements for these facilities. Interconnecting these facilities with the utility system is called "net metering" because, for billing purposes, it requires the utility to measure both the utility's power used by the customer and the power the customer supplies to the utility to arrive at a "net" amount of generation (in kWh). The meter reading area of the bill will show the amount of customer-generated energy fed back to the utility, the amount of utility-supplied energy

and the difference between the two or the "net" energy. The "energy charge" line on a customer's bill will show the "net" energy billed to the customer. If the customer's facility provides more energy during a billing period than is provided by the utility, the energy charge for that period will be zero.

The intent of this law is consistent with Entergy Arkansas' commitment to facilitating clean power generation, and Entergy Arkansas will gladly work with our customers who choose to pursue alternative generation systems. Each net metering facility will require an interconnection agreement with Entergy Arkansas and must conform to the safety and performance standards approved for these facilities.

For more information, please call 1-800-ENTERGY or, if you are a larger business account, contact your account representative and ask for details on net metering facilities.

